

ABSTRACT

[Abstract]

[Problems] To suppress an increase in the discharge amount of harmful substances and operating cost in a cement kiln or the like.

[Means for Solving Problems] This combustion exhaust gas G processing device comprises a dust collector 6 collecting dust in combustion exhaust gas G, a wet dust collector 7 collecting water soluble components and dust in the combustion exhaust gas G passed through the dust collector 6, and a catalyst tower 12 decomposing and removing NO_x and/or dioxins in the combustion exhaust gas G passed through the wet dust collector 7. The device also desirably comprises a reheater 11 heating the combustion exhaust gas G discharged from the wet dust collector 7 at the front stage of the catalyst tower 12, an oxidizer adding device 10 adding an oxidizer to the combustion exhaust gas G passed through the dust collector 6, a solid/liquid separator 16 separating slurry discharged from the wet dust collector 7 into solid and liquid phases, a mercury adsorbing tower 17 adsorbing mercury in liquid separated in the solid/liquid separator 16, and a heat recovering device 13 heating the combustion exhaust gas G discharged from the catalyst tower 12 at the rear stage of the catalyst tower 12.

[Selected Drawing] Figure 1